

THORN
Airfield Lighting

SafeLED IQ – The all in one revolution



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Welcome to a new era for addressable airfield lighting. The totally unique SafeLED IQ offers benefits that have never been seen before. This all-in-one revolution gives you a safe and efficient application that you will not have to worry about for many, many years. Not for changing the bulb, not for changing the prism, not for checking or changing the converter and certainly not for faultfinding. With SafeLED IQ you can centrally monitor and control your LED application without any further hardware, ensuring high availability and great cost efficiency.

For safety and efficiency

Designing for high availability means minimizing the amount of components that could break. The SafeLED IQ is an all-in-one revolution that offers remarkable benefits compared to traditional installations.

▪ **Protected in a harsh environment**

All components are encapsulated in waterproof epoxy, well protected from wear and tear. The components' life cycle is dramatically extended and its uptime is greatly increased.

▪ **Easy monitoring**

You can easily monitor and control every component in the application allowing for detailed fault report and statistics for analysis. This makes it possible to pre-plan the maintenance work and avoid acute problems.

▪ **Minimizing earthing problems**

By reducing the amount of connectors you get less problems and less corrective maintenance, which ensure a reliable application performance.

▪ **Easy maintenance**

Save time and money when you know exactly what actions that are needed out in the field.

▪ **Energy savings**

SafeLED IQ entails the lowest power consumption on the market, which have both economical and environmental benefits.

▪ **Backwards compatible**

SafeLED IQ is backwards compatible, allowing you to continue on investments already made.

▪ **Option – reinforced prism**

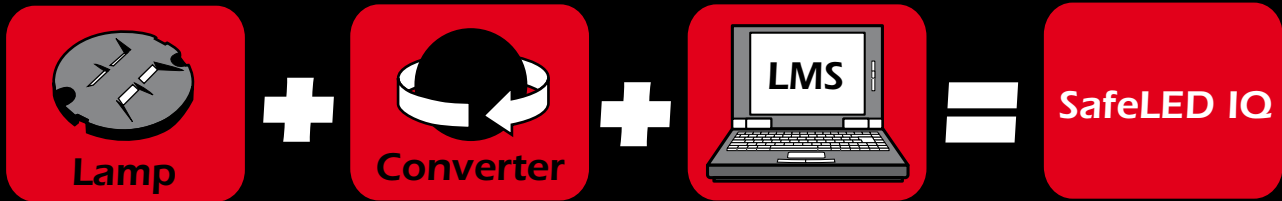
To further prolong the lifetime of the lamp, a reinforced prism can be provided.



SafeLED IO

The SafeLED IO may look like a usual luminaire, but has so much more to offer. As the LED, the converter and the light monitoring and switch/control unit are all integrated in the luminaire and can be monitored and controlled centrally, SafeLED IO offers revolutionary benefits.

The components are totally encapsulated in waterproof epoxy, and by that totally protected from wear and tear.



SafeLED IO – technical benefits

- LED life greater than 50,000 hours
- Low power consumption
- Very low projection: 6.35 mm (1/4") without negative slope (same performance in dry and rainy conditions)
- Small diameter: 203 mm (8")
- Compatible with existing AGL circuits (6.6A version)
- Easy and fast maintenance
- Common parts with other inset lights
- Prism with easily replaceable seals
- Valve for water-tightness test
- Easy handling due to small size and low weight



CCR with Circuit Selector

A modern Cat II/III airfield building for future growth and A-SMGCS typically has between 500 and 1,500 light segments per runway, including taxiways. Traditionally, these segments have been designed and created using CCR's (constant current regulators) and circuit selectors, resulting in thousands of kilometres of cable and numerous CCR's. To safely handle traffic increases and new regulations, changes to the circuits are needed every year. Traditionally, this is done at a high cost and with substantial disruption to the traffic thereby limiting the capacity.



With SafeLED IO

Using SafeLED IO and software based segmentation allows a significant increase in the number of lights per circuit resulting in significant decrease in the number of CCR's and cable. Thorn AFL's SafeLED IO has the ability to differentiate between critical and non-critical lamp failure ensuring fast response and maximum uptime for the runway. With a modern design your airport can improve safety and capacity at one-third the cost of a traditional circuit design and save on maintenance at the same time.

SafeLED IO is a new and totally unique product that further empowers the system that increases safety and efficiency in airports – also known as The Safegate Effect.

The Safegate Effect

How many aircrafts can your airport handle today, and yet still maintain a high level of safety? Can this number be increased?

Ask us and the answer will be yes. We provide airports around the world with improved capacity and safety by the market's most advanced solutions for guidance and docking. The Safegate Effect is the benefit of what we do – in short more and safer movements, that save time and money.

Together with Safegate you can find out just how efficient your airport can become.



For more than 50 years, THORN AFL has been designing, manufacturing and supplying a comprehensive range of aviation ground lighting equipment to cover the needs of airports and heliports worldwide.

Safegate's acquisition of Thorn AFL in 2006 marks another big step in our drive for increased airport safety and efficiency. With our complete range of products and services, a 'one stop shop', we are able to provide even better value to our customers and airborne travellers around the globe.

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